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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,496	12/18/2003	Cuong V. Nguyen	19441-0006	1495
29052	7590 12/05/2006	•	EXAMINER	
SUTHERLAND ASBILL & BRENNAN LLP			KAPLAN, HAL IRA	
999 PEACH ATLANTA,	TREE STREET, N.E. GA 30309		ART UNIT	PAPER NUMBER
			2836	
			DATE MAILED: 12/05/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/707,496	NGUYEN ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Hal I. Kaplan	2836					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence ac	ddress				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MON e, cause the application to become AB	CATION eply be timely filed THS from the mailing date of this c ANDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>21 S</u>	eptember 2006.						
<u> </u>	action is non-final.						
3) Since this application is in condition for allowa		ers, prosecution as to the	e merits is				
closed in accordance with the practice under E	•	• •					
Disposition of Claims							
4) Claim(s) <u>1-8,10-15,18 and 22-36</u> is/are pendin	g in the application.						
4a) Of the above claim(s) is/are withdraw	• • • • • • • • • • • • • • • • • • • •						
5)⊠ Claim(s) <u>1-8,10-15 and 31-36</u> is/are allowed.							
6)⊠ Claim(s) <u>22-27 and 30</u> is/are rejected.							
7)⊠ Claim(s) <u>28 and 29</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	ır						
•		objected to by the Exar	miner .				
10) The drawing(s) filed on <u>21 September 2006</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	=	* *	FR 1 121(d)				
11) The oath or declaration is objected to by the Ex		•					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	• .				
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority document	•	·					
3. Copies of the certified copies of the prior		received in this National	Stage				
application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,						
* See the attached detailed Office action for a list	of the certified copies not	received.					
Attachment(s)							
Notice of References Cited (PTO-892)		ummary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08))/Mail Date. <u>20061025</u> . Iformal Patent Application	•				
Paper No(s)/Mail Date	6) Other:						

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DETAILED ACTION

The Examiner would like to thank the Applicants for their time and courtesies extended in the telephone interview on October 25, 2006. An Examiner's Amendment to correct the dependency of claim 10 on canceled claim 9 was approved; however, some of the claims were rejected based on prior art.

Drawings

1. The drawings were received on September 21, 2006. These drawings are accepted.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 22 is rejected under 35 U.S.C. 102(e) as being anticipated by the US patent application publication of Worden et al. (2002/0190525).

As to claim 22, Worden, drawn to an inverter controlled, parallel connected asynchronous generator for distributed generation, discloses a power generating system, comprising: a generator (404) including an inverter (406) capable of producing an output waveform having a frequency to power a load (106); and a controller (416) connected to the generator (404) wherein the controller (416) is capable of providing the

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frequency for producing the output waveform and is operative to drift the frequency to substantially match a frequency from a second power source (grid 104) (see paragraph 17, lines 6-16; paragraph 19, lines 2-6; and paragraph 22, line 2).

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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7. Claims 23-27 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Worden in view of the US patent of Roesel, Jr. (4,168,459).

As to claim 23, Worden discloses all of the claimed features, as set forth above, except for a sensor. Roesel, Jr., drawn to non-interruptible power supply systems, discloses a sensor (252) connected to a grid (14) and a controller that measures a grid operating condition (see column 17, lines 45-49). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to use a sensor to measure the frequency in the system of Worden because, since the frequency of the generator is matched to the grid frequency, the grid frequency must be measured or detected somehow.

As to claims 24-25, the sensor of Roesel, Jr., can measure grid frequency or voltage (see column 17, lines 45-49).

As to claim 26, Worden discloses a controller operative to disconnect the grid power source (104) from the load (106) if the voltage of the grid power source (104) is outside a range of values (utility grid fails) (see paragraph 4, lines 8-11).

As to claim 27, Roesel, Jr. discloses a mode switch logic device (16) that is operative to disconnect and reconnect a power source based on input from range detectors (252); a frequency range detector (252) that is connected to the mode switch logic device (16) and which determines if the grid frequency is within a range of values; and a frequency adjust loop that is operative to drift the generator frequency to the grid frequency (see column 17, lines 45-60).

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As to claim 30, Roesel, Jr. discloses a voltage range detector (252) that is connected to a mode switch logic device (16), wherein the voltage range detector (252) determines if the voltage is outside a range of values (see column 17, lines 45-54).

Allowable Subject Matter

- 8. Claims 1-8, 10-15, and 31-36 allowed.
- 9. Claims 28 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is an examiner's statement of reasons for allowance:

Claims 1-8, 10-15, and 18 are allowed because none of the prior art of record discloses or suggests the step of reconnecting the first power source to the load when the first value is within the range and while the second power source continues to provide power to the load, in combination with the remaining claimed features

Claims 31-36 are allowed because none of the prior art of record discloses or suggests deliberately attempting to drift the frequency from the second power source away from the frequency from the first power source, in combination with the remaining claimed features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

11. The following is a statement of reasons for the indication of allowable subject matter:

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Claim 28 contains allowable subject matter because none of the prior art of record discloses or suggests the use of a default frequency generator, in combination with the remaining claimed features.

Claim 29 contains allowable subject matter because none of the prior art of record discloses or suggests the use of a grid period stretcher, in combination with the remaining claimed features.

Response to Arguments

12. Applicant's arguments, see Remarks, filed September 21, 2006, with respect to the objections and rejections have been fully considered and are persuasive. The objections and rejections have been withdrawn.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The US patent to Maekawa et al. (5,627,737) discloses a similar system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hal I. Kaplan whose telephone number is 571-272-8587. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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hik

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800